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**Bcc:** CN=Barbara Butler/OU=CI/O=USEPA/C=US@EPA[]  
**From:** CN=Phil North/OU=R10/O=USEPA/C=US  
**Sent:** Thur 1/12/2012 1:16:44 AM  
**Subject:** Life expectancy of liners

Hello Mr. Bruel,

I talked with you briefly at the Tailings and Mine Waste '11 conference in Vancouver. I asked about the warranted life and the expected service life of your products as a liner for a tailings impoundment. I might have also asked if there was a maximum size of tailings impoundment that could be lined. Do you have any documentation in answer to these two questions? I work on mines in Alaska and am often involved in decisions about liners for tailings facilities. I am always looking for more background information to help me understand these issues.

Thanks for your help.

Phil North

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"To protect your rivers, protect your mountains."